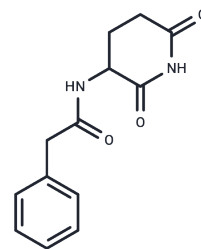


(Rac)-Antineoplaston A10

Chemical Properties

CAS No. :	77658-84-5
Formula:	C ₁₃ H ₁₄ N ₂ O ₃
Molecular Weight:	246.26
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	(Rac)-Antineoplaston A10 (Antineoplaston A10) is a naturally occurring substance and the first antineoplaston in the human body to be chemically identified. It displayed anti-proliferative action inhibiting cell growth.
Targets(IC50)	Apoptosis,Ras
In vitro	Antineoplaston A10 (2, 4, 8 mg/ml) inhibited cell proliferation time and dose-dependently in all 6 HCC cell lines. A concentration of 8 mg/ml of Antineoplaston A10 was required to inhibit cell proliferation in KIM-1, KYN-3, HAK-1A, and HAK-1B cells [1]. The HepG2 cells, when incubated with 10 µg/ml of antineoplaston A10, had a cell growth inhibition rate of less than 10% for up to 120 h, while cells incubated with 200 µg/ml of antineoplaston A10 had an inhibition rate of 34.9% at 120 h [2].

Solubility Information

Solubility	DMSO: 27.5 mg/mL (111.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0607 mL	20.3037 mL	40.6075 mL
5 mM	0.8121 mL	4.0607 mL	8.1215 mL
10 mM	0.4061 mL	2.0304 mL	4.0607 mL
50 mM	0.0812 mL	0.4061 mL	0.8121 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tsuda H, et al. Inhibitory effect of antineoplaston A10 and AS2-1 on human hepatocellular carcinoma. Kurume Med J. 1996;43(2):137-47.

Qu XJ, et al. Induction of apoptosis in human hepatocellular carcinoma cells by synthetic antineoplaston A10. Anticancer Res. 2007 Jul-Aug;27(4B):2427-31.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481